

Not *B. Humphreysianum* of Möller, Lovén, Middendorff, M. Sars, Danielssen, or Malm.

6. *Buccinum Totteni*, (*Tottenii*) Stimpson.

B. terræ-novæ (Beck), Mörch.

B. undulatum, Hanc. (not Möll.).

Var. *B. plectrum*, St.

Var. *B. Packardi*, St.

Var. *Tr. simplex*, Midd.

Var. *B. Amalieæ*, Verkr.

Var. *B. elegans*, Verkr.

7. *Buccinum tenue*, Gray.

B. scalariforme (Beck), Möll.

Tr. ochotense, Midd.

B. tortuosum, Reeve.

8. *Buccinum ciliatum*, Fabr.

B. cyaneum, Hanc. (not Brug.).

Tr. tenebrosus (as of Hancock), var. *borealis*, Midd.

B. Molleri, Reeve.

LVI.—*Diagnoses of new Shells from Lake Tanganyika and East Africa.* By EDGAR A. SMITH *.

LIMNOTROCHUS, gen. nov.

Testa trochiformis, umbilicata, epidermide haud induta, spiraliter lirata. Anfractus ultimus in medio carinatus. Apertura intus non lirata, labro exteriori obliquo, margine basali late sinuato, columellari aliquanto reflexo, calloque labro superne juncto. Operculum corneum, paucispirale.

Limnotrochus Thomsoni.

Testa subsolida, anguste umbilicata, trochiformis, livide purpurea, fusco notata, ad basim et suturam albida. Anfractus 7, plani, declives, inferne late canaliculati, supra liris quatuor inæqualibus granulosi (suprema et infima quam cæteræ majoribus) cincti; anfr. ultimus in medio fortiter et subacute carinatus, infra medium leviter convexus, liris circiter 8 concentricis, plus minusve granulosi cinctus. Apertura subquadrangularis, intus supra carinam purpurascens, infra pallida. Labrum tenue, obliquum. Margo basalis late sinuatus; columella arcuata, superne leviter reflexa, labro callo juncta.

Long. 18 millim., diam. 11; aperturæ longit. $7\frac{1}{2}$ millim., diam. 6.

Hab. Lake Tanganyika (*J. Thomson*).

* It is proposed to give elsewhere a full account of the collections of which the shells here described form part, with more detailed descriptions and coloured figures.

Limnotrochus Kirkii.

Testa trochiformis, anguste sed profunde umbilicata, lutescens. Anfractus circiter 7, leviter concavi, liris 6-7 granulosi (infima ad suturam maxima) ornati; anfr. ultimus medio valde angulatus, lirisque duabus fortibus granosis cinctus, inferne planiusculus, versus carinam concavus, liris numerosis inæqualibus, iis prope umbilicum quam cæteræ majoribus, cinctus. Apertura albida. Labrum obliquum, leviter incurvatum. Margo basalis late et profunde sinuatus; columellaris aliquanto incrassatus et reflexus, callo crassiusculo labro junctus.

Longit. 15 millim., diam. 17.

Hab. Lake Tanganyika (*E. Coode Hore*).

Lithoglyphus neritinoides.

Testa ovata, imperforata, tenuiuscula, lævis. Spira brevis, purpurascens, infra suturam albida. Anfractus 4, convexi; anfr. ult. magnus, elongatus, semipellucide albidus, epidermide tenuissima subolivacea indutus, lineis transversis filiformibus rufis ornatus. Apertura inverse pyriformis, longitudinis totius $\frac{5}{6}$ vix æquans. Labrum tenue. Columella callo maximo lato induta.

Longit. $6\frac{1}{2}$ millim., diam. 5; aperturæ long. 5 millim., lat. 3.

Hab. Lake Tanganyika (*Thomson*).

Lithoglyphus rufoflosus.

Testa globosa, crassa, rimata, alba, lineis gracilibus rufis cincta, epidermide tenuissima induta. Anfractus $5\frac{1}{2}$, celeriter accrescentes, convexi, sutura simplici profundiuscula discreti, incrementi lineis striati; anfr. ult. magnus, globosus. Apertura magna, inverse subpyriformis, albida, longitudinis totius circiter $\frac{7}{9}$ æquans. Labrum tenue. Margo basalis incrassatus. Columella arcuata, valde callosa, reflexa, superne callo albo crasso labro juncta.

Longit. 13 millim., diam. $11\frac{1}{2}$; aperturæ long. $10\frac{1}{2}$ millim., lat. 6.

Hab. Lake Tanganyika (*Thomson*).

SYRNOLOPSIS, gen. nov.

Testa subulata, lævis, imperforata. Apertura ad basim late sinuata.

Labrum leviter incrassatum, in medio late sinuatum, inferne aliquanto productum, longe intus liris 1-2 prominulis munitum. Columella incrassata, plica valida superne instructa, labri extremitati callo tenui juncta.

Syrnolopsis lacustris.

Testa lævis, nitida, elongata, subulata, imperforata, luteo-cornea, infra suturam albo zonata. Anfr. 12, primi 2-3 convexi, cæteri fere plani, lente accrescentes, lineis incrementi valde flexuosis

tenuiter striati; sutura simplex, vix obliqua. Apertura parva, longitudinis totius $\frac{1}{4}$ fere æquans. Labrum et columella ut supra descripta.

Longit. $11\frac{1}{2}$ millim., diam. 3; aperturæ long. 3 millim., lat. 2.

Hab. Lake Tanganyika (*Thomson*).

Melania (Sermyla) admirabilis.

Testa solidiuscula, elongata, turrita, albida luto fuscescente decorata. Anfractus circiter 10, convexi, sutura obliqua profundissima sejuncti, longitudinaliter valide costati, sulcoque paululum infra suturam inæqualiter bipartiti; costæ valde arcuatæ, obliquæ, supra sulcum tuberculatæ; anfr. ultimus ad peripheriam rotundatus, infra eam liris validis 5-6 concentricis instructus, costis ad medium subito truncatis. Apertura subovata, longitudinis totius $\frac{1}{3}$ haud æquans, ad basin effusa. Columella obliqua, inferne arcuata, callosa, labro callo juncta.

Longit. 47 millim., diam. 14; aperturæ long. 14 millim., lat. 8.

Hab. Lake Tanganyika (*E. Coode Hore*).

Melania tanganyicensis.

Testa parva, turrita, solida, fere nigra, circa medium anfractuum zona lata dilute castanea cincta. Anfr. circiter 6, plani, superne rotunde humerosi, costis validis, latis, parum elevatis instructi; anfr. ult. magnus, basi sulcis paucis concentricis sculptus. Apertura dimidium testæ fere æquans. Columella arcuata, pallida, inferne incrassata.

Longit. $7\frac{1}{2}$ millim., diam. $2\frac{3}{4}$; aperturæ long. $3\frac{1}{2}$ millim.

Hab. Lake Tanganyika (*Thomson*).

Melania (—?) Horei.

Testa ovato-conica, lævis, fusca, infra suturam linea alba cincta. Anfr. $6\frac{1}{2}$, vix convexi, lineis incrementi levibus striati; anfr. ultimus prope aperturam paulo ascendens, inde subito ad marginem labri descendens, et ad basim aliquanto incrassatus. Apertura ovata, superne acuminata, purpureo-fusca, longitudinis totius $\frac{3}{7}$ adæquans. Labrum præcipue prope suturam incrassatum, versus basim leviter patulum. Columella albescens, mediocriter arcuata, superne callo tenui labro juncta.

Longit. 14 millim., diam. $6\frac{1}{2}$; aperturæ long. 6 millim., lat. 4.

Hab. Lake Tanganyika (*E. C. Hore*).

Bulimus notabilis.

Testa ovata, late umbilicata, pallide fusca. Anfractus 8, mediocriter convexi, liris confertis filiformibus, parum obliquis, vix arcuatis vel flexuosis ornatî, sutura pæne horizontali discreti; anfr. ultimus ad peripheriam convexus, earina obsoleta, vix conspicua instructus, circa umbilicum carinatus. Apertura irregu-

lariter ovata, supra et infra aliquanto acuminata, ad basin canaliculata, intus carneo-fusca, longit. totius $\frac{2}{5}$ adæquans. Peristoma album, tenue, margine exterioro obliquo, haud dilatato, medio vix prominulo, columellari late expanso, arcuato, extremitatibus callo tenuissimo junctis.

Longit. 43 millim., diam. 20; aperturæ long. $17\frac{1}{2}$ millim., lat. 11.

Hab. Between Lake Nyassa and east coast (*Thomson*).

Achatina Thomsoni.

Testa solidiuscula, elongato-ovata, albida, nigro-fusco strigata, epidermide tenui, flavescente, decussata induta; spira aliquanto purpureo-rubida, plus minusve detrita. Anfr. 7, leviter convexi, incrementi lineis striati; anfr. ult. elongatus, angustus, sensim descendens. Apertura pyriformis, cæruleo-alba, longit. totius $\frac{1}{2}$ subæquans. Columella arcuata, incrassata, inferne haud abrupte truncata, labro callo tenui superne juncta.

Longit. 75 millim., diam. 32; aperturæ long. 38 millim., lat. 21.

Hab. Between Lake Nyassa and east coast (*Thomson*).

Achatina Kirkii.

Testa elongato-ovata, superne aliquanto acuminata, alba, strigis fuscis, suberectis, leviter undulatis ornata, epidermide flavescente induta. Anfr. 8-9, medioeriter convexi, lineis decussantibus subgranose sculpti; sutura inter anfr. superiores horizontalis, inter duos ultimos obliqua; anfr. ult. descendens, infra medium lævior. Apertura subpyriformis, cæruleo-alba, longitudinis totius $\frac{1}{2}$ haud æquans. Columella parum arcuata, albida, subabrupte truncata, labro callo tenui juncta.

Long. 81 millim., diam. 37; aperturæ long. 39 millim., lat. 20.

Hab. Between Zanzibar and Lake Tanganyika (*Dr. J. Kirk*).

Subulina solidiuscula.

Testa elongata, subulata, solidiuscula, imperforata, alba, epidermide tenui olivacea obtecta, incrementi lineis striisque transversis haud profundis sculpta. Spira lateribus rectilinearibus, lente accrescens. Apex obtusus, truncatus. Anfractus reliqui 8, vix convexi, sutura subhorizontali simplici sejuncti. Apertura brevis; columella curvata.

Long. 52 millim., diam. 11; aperturæ long. 9 millim., lat. $5\frac{1}{2}$.

Hab. Near Lake Tanganyika (*Thomson*).

Subulina lenta.

Testa subulata, imperforata, epidermide pallide olivacea, strigis obliquis obscurioribus hic illic variegata, induta. Anfractus 11-12, parum convexi, lente accrescentes, incrementi lineis ob-

liquis leviter flexuosis sculpti. Sutura simplex, aliquanto obliqua, profundiuscula. Apertura parva, longitudinis totius $\frac{1}{5}$ haud æquans. Columella perarcuata, inferne abrupte truncata.

Hab. Near Lake Tanganyika (*Thomson*).

Streptaxis Craveni.

Testa anguste umbilicata, oblique distorta, lævis, nitida, sordide lactea. Anfr. 7, leviter convexi, infra suturam confertim costulatis striati; anfr. ult. antice subito descendens, inde supra anfr. penultimum aliquanto ascendens, peroblique excentricus. Apertura obliqua, haud denticulata. Labrum ad suturam sinuatum, in medio prominulum, arcuatum, inferne obliquum, leviter incrassatum et reflexum. Columella incrassata, anguste reflexa, parum arcuata.

Long. 29 millim., diam. 22; aperturæ long. 15 millim., lat. $12\frac{1}{2}$.

Hab. On hills between the mouth of the river Dana and Mombasa, E. Africa (*Dr. J. Kirk*).

Streptaxis gigas.

Testa maxima, alba, late umbilicata. Anfr. 6, regulariter accrescentes, convexiusculi, costulis perarcuatis, validis, confertis instructi; anfr. ult. infra peripheriam nitidus, lineis incrementi tenuibus sculptus. Apertura magna, sublunata. Labrum obliquum, superne arcuatum et productum, inferne late sinuatum, tenue. Columella aliquanto supra expansa.

Alt. 30 millim., diam. 33; aperturæ long. $17\frac{1}{2}$ millim., lat. 15.

Hab. Between Lake Nyassa and the east coast (*Thomson*).

Streptaxis mozambicensis.

Testa parva, rimata, albida, lævis, nitida. Anfr. 6, convexi, infra suturam profundam crenulati; anfr. ultimus obliquus, antice descendens, prope labrum breviter ascendens, supra aperturam paulo complanatus. Apertura circulariter lunata, parva, haud denticulata. Labrum leviter arcuatum, obliquum, anguste expansum. Margo columellaris latius expansus.

Alt. $7\frac{1}{2}$ millim., diam. anfr. ult. $4\frac{1}{2}$; aperturæ long. 3 millim., lat. $2\frac{1}{2}$.

Hab. Between Lake Nyassa and the east coast (*Thomson*).

Unio Horei.

Testa oblonga, subrhomboidalis, postice leviter latior, inæquilateralis, tenuiuscula, margaritacea, epidermide tenni flavo-olivacea induta, concentrice striata, supra umbones corrugata, utrinque prope marginem dorsalem radiatim plicata. Margo dorsalis rectiusculus; margo anterior late curvatus, posterior obliquus parum arcuatus, ventralis leviter curvatus. Facies interna alba, margaritacea. Dentes anteriores et posteriores lamellæformes. Cicatrices parum profundæ, anterior profundior, subquadrata.

Long. $16\frac{1}{2}$ millim., lat. 25; diam. $9\frac{1}{2}$ millim.

Hab. Lake Tanganyika (*Thomson*).

Unio Thomsoni.

Testa ovata, postice aliquanto acuminata, inæquilateralis, flavescens vel rosaceus, sordide rosaceo obscure radiata, epidermide tenui olivacea obtecta, concentrice striata, prope marginem dorsalem granose radiatim distincte utrinque corrugata. Margo dorsalis postice declivis, antice subsinuate descendens; margo ventralis valde arcuatus, postice vix sinuatus. Umbones parvi, acutiusculi, concinne corrugati, ad $\frac{2}{7}$ longitudinis siti. Dentés cardinales parvi, irregulariter bifidi vel tripartiti, rugosi, striati; posteriores graciles. Pagina interna cæruleo-alba, roseo radiata vel purpureo-fusca.

Long. 15 millim., lat. 21; diam. 10 millim.

Hab. Lake Tanganyika (*Thomson*).

LVII.—*Notes on the French exploring Voyage of 'Le Travailleur' in the Bay of Biscay.* By the Rev. A. M. NORMAN, M.A., F.L.S., &c.*

IN June last a Commission was appointed by the French Government for the purpose of exploring the great depths which captains and Spanish fishermen affirmed existed in the Gulf of Gaseony, off the coasts of Cantabria and the Asturias. The members of this Commission were Professor Milne-Edwards (President), Professor Alphonse Milne-Edwards, the Marquis de Folin, Professor Vaillant, Professor Marion, Professor L. Perier of Bordeaux, and Dr. Paul Fischer. M. Jules Ferry, the Minister of Public Instruction and Science, did my friend Dr. Gwyn Jeffreys and myself the honour of inviting us to act with this Commission as "collaborateurs étrangers," and to accept hospitality on board the Government steamer 'Le Travailleur,' which was placed at the disposal of the Commission for the last fortnight of July.

'Le Travailleur' is a paddle-steamer of about 1000 tons, with a complement of officers and men, which was increased to 145 for the expedition, additional hands being engaged, so that there might be no cessation night or day in the soundings and dredgings. She was carefully fitted up with every scientific appliance necessary for such an expedition, and was most admirably handled by Captain Richard, her commander, and his efficient staff of officers, all of whom threw themselves

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